

2590
0328

11



OIIPE

RAW SEQUENCE LISTING

DATE: 04/02/2002

PATENT APPLICATION: US/09/715,836A

TIME: 16:13:59

Input Set : A:\BURF-P01-006 Sequence Listing.txt

Output Set: N:\CRF3\04022002\I715836A.raw

ENTERED

4 <110> APPLICANT: Fallon, J.
 5 McKechnie, B.
 6 Raffi, M.
 7 Creely, H.
 8 Bowe, M.
 9 Ferri, R.
 12 <120> TITLE OF INVENTION: BIGLYCAN AND RELATED THERAPEUTICS AND METHODS OF USE
 14 <130> FILE REFERENCE: BURF-P01-006
 16 <140> CURRENT APPLICATION NUMBER: 09/715,836A
 C--> 17 <141> CURRENT FILING DATE: 2002-03-18
 19 <150> PRIOR APPLICATION NUMBER: 60/166,253
 20 <151> PRIOR FILING DATE: 1999-11-18
 22 <160> NUMBER OF SEQ ID NOS: 10
 24 <170> SOFTWARE: PatentIn version 3.1
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 9
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Torpedo sp.
 32 <400> SEQUENCE: 1
 34 Ile Gln Ala Ile Glu Phe Glu Asp Leu
 35 1 5
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 9
 40 <212> TYPE: PRT
 41 <213> ORGANISM: Torpedo sp.
 43 <400> SEQUENCE: 2
 45 Leu Gly Leu Gly Phe Asn Glu Ile Arg
 46 1 5
 49 <210> SEQ ID NO: 3
 50 <211> LENGTH: 19
 51 <212> TYPE: PRT
 52 <213> ORGANISM: Torpedo sp.
 54 <400> SEQUENCE: 3
 56 Thr Ser Tyr His Gly Ile Ser Leu Phe Asn Asn Pro Val Asn Tyr Trp
 57 1 5 10 15
 59 Asp Val Leu
 62 <210> SEQ ID NO: 4
 63 <211> LENGTH: 9
 64 <212> TYPE: PRT
 65 <213> ORGANISM: Homo sapiens
 67 <400> SEQUENCE: 4
 69 Ile Gln Ala Ile Glu Leu Glu Asp Leu
 70 1 5

RAW SEQUENCE LISTING

DATE: 04/02/2002

PATENT APPLICATION: US/09/715,836A

TIME: 16:13:59

Input Set : A:\BURF-P01-006 Sequence Listing.txt

Output Set: N:\CRF3\04022002\I715836A.raw

```

73 <210> SEQ ID NO: 5
74 <211> LENGTH: 9
75 <212> TYPE: PRT
76 <213> ORGANISM: Homo sapiens
78 <400> SEQUENCE: 5
80 Leu Gly Leu Gly His Asn Gln Ile Arg
81 1 5
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 19
86 <212> TYPE: PRT
87 <213> ORGANISM: Homo sapiens
89 <400> SEQUENCE: 6
91 Ala Tyr Tyr Asn Gly Ile Ser Leu Phe Asn Asn Pro Val Pro Tyr Trp
92 1 5 10 15
94 Glu Val Gln
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 1685
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 7
103 gagtagctgc ttctcggtccg ccggacacac cggacagata gacgtgcgga cggcccacca 60
105 cccagcccg ccaactagtc agcctgcgcc tggcgccctcc cctctccagg tccatccgcc 120
107 atgtggcccc tgtggcgccct cgtgtctctg ctggccctga gccaggccct gccctttgag 180
109 cagagaggct tctgggactt caccctggac gatgggccat tcatgatgaa cgatgaggaa 240
111 gcttcgggcg ctgacacctc aggcgtcctg gacccggact ctgtcacacc cacctacagc 300
113 gccatgtgtc ctttcggctg ccactgccac ctgcgggtgg ttcagtgtc cgacctgggt 360
115 ctgaagtctg tgcccaaaga gatctcccct gacaccacgc tgctggacct gcagaacaac 420
117 gacatctccg agctccgcaa ggatgaactt aagggtctcc agcacctcta cgccctcgtc 480
119 ctggtgaaca acaagatctc caagatccat gagaaggcct tcagccact gcggaagctg 540
121 cagaagctct acatctccaa gaaccacctg gtggagatcc cgcccaacct acccagctcc 600
123 ctggtggagc tccgcatcca cgacaaccgc atccgcaagg tgcccaaggg agtggtcagc 660
125 gggctccgga acatgaactg catcgagatg ggcgggaacc cactggagaa cagtggcttt 720
127 gaacctggag ccttcgatgg cctgaagctc aactacctgc gcatctcaga ggccaagctg 780
129 actggcatcc ccaaagacct ccctgagacc ctgaatgaac tccacctaga ccacaacaaa 840
131 atccaggcca tcgaactgga ggacctgctt cgctactcca agctgtacag gctgggccta 900
133 ggccacaacc agatcaggat gatcgagaac gggagcctga gcttcctgcc caccctccgg 960
135 gagctccact tggacaacaa caagttggcc aggggtgccct cagggtctcc agacctcaag 1020
137 ctctccagg tggtctatct gcaactcaac aacatcacca aagtgggtgt caacgacttc 1080
139 tgtcccatgg gcttcggggg gaagcggggc tactacaacg gcatcagcct cttcaacaac 1140
141 cccgtgccct actgggaggt gcagccggcc actttccgct gcgtcactga ccgctgggcc 1200
143 atccagtttg gcaactacaa aaagtagagg cagctgcagc caccgcgggg cctcagtggg 1260
145 ggtctctggg gaacacagcc agacatcctg atggggaggc agagccagga agctaagcca 1320
147 gggcccagct gcgtccaacc cagcccccca cctcaggtcc ctgaccccag ctcgatgccc 1380
149 catcaccgcc tctccctggc tcccaagggt gcaggtgggc gcaaggcccg gccccatca 1440
151 catgttcctt tggcctcaga gctgcccctg ctctcccacc acagccaccc agaggcacc 1500
153 catgaagctt ttttctcgtt cactcccaaa ccaagtgtc caaagtcca gtcctaggag 1560
155 aacagtccct gggtcagcag ccaggaggcg gtccataaga atggggacag tgggctctgc 1620
157 cagggtgcc gcacctgtcc agaacaacat gttctgttcc tcctcctcat gcatttccag 1680
159 ccttg 1685

```

RAW SEQUENCE LISTING

DATE: 04/02/2002

PATENT APPLICATION: US/09/715,836A

TIME: 16:13:59

Input Set : A:\BURF-P01-006 Sequence Listing.txt

Output Set: N:\CRF3\04022002\I715836A.raw

```

162 <210> SEQ ID NO: 8
163 <211> LENGTH: 1104
164 <212> TYPE: DNA
165 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 8
168 atgtggcccc tgtggcgccct cgtgtctctg ctggccctga gccaggccct gccctttgag      60
170 cagagaggct tctgggactt caccctggac gatgggcat tcatgatgaa cgatgaggaa      120
172 gcttcgggcg ctgacacctc aggcgtcctg gacccggact ctgtcacacc cacctacagc      180
174 gccatgtgtc ctttcggctg ccactgccac ctgcgggtgg ttccagtgtc cgacctgggt      240
176 ctgaagtctg tgcccaaaga gatctccctt gacaccacgc tgctggacct gcagaacaac      300
178 gacatctccg agctccgcaa ggaatgactt aaggggtctc agcacctcta cgccctcgtc      360
180 ctggtgaaca acaagatctc caagatccat gagaaggcct tcagcccaact gcggaagctg      420
182 cagaagctct acatctccaa gaaccacctg gtggagatcc cgcccaacct acccagctcc      480
184 ctggtggagc tccgcatcca cgacaaccgc atccgcaagg tgcccaaggg agtggttcagc      540
186 gggctccgga acatgaactg catcgagatg ggcgggaacc cactggagaa cagtggcttt      600
188 gaacctggag ctttcgatgg cctgaagctc aactacctgc gcatctcaga ggccaagctg      660
190 actggcatcc ccaaagacct ccctgagacc ctgaatgaac tccacctaga ccacaacaaa      720
192 atccaggcca tcgaactgga ggacctgctt cgctactcca agctgtacag gctgggccta      780
194 ggccacaacc agatcaggat gatcgagaac gggagcctga gcttctgcc caccctccgg      840
196 gagctccact tggacaacaa caagttggcc aggggtgccct cagggctccc agacctcaag      900
198 ctctccagg tgggtctatct gactccaac aacatcacca aagtgggtgt caacgacttc      960
200 tgtcccatgg gcttcggggg gaagcggggc tactacaacg gcatcagcct cttcaacaac     1020
202 cccgtgccct actgggaggt gcagccggcc actttccgct gcgtcactga ccgctggcc      1080
204 atccagtttg gcaactacaa aaag                                     1104

207 <210> SEQ ID NO: 9
208 <211> LENGTH: 368
209 <212> TYPE: PRT
210 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 9
214 Met Trp Pro Leu Trp Arg Leu Val Ser Leu Leu Ala Leu Ser Gln Ala
215 1 5 10 15
217 Leu Pro Phe Glu Gln Arg Gly Phe Trp Asp Phe Thr Leu Asp Asp Gly
218 20 25 30
220 Pro Phe Met Met Asn Asp Glu Glu Ala Ser Gly Ala Asp Thr Ser Gly
221 35 40 45
223 Val Leu Asp Pro Asp Ser Val Thr Pro Thr Tyr Ser Ala Met Cys Pro
224 50 55 60
226 Phe Gly Cys His Cys His Leu Arg Val Val Gln Cys Ser Asp Leu Gly
227 65 70 75 80
229 Leu Lys Ser Val Pro Lys Glu Ile Ser Pro Asp Thr Thr Leu Leu Asp
230 85 90 95
232 Leu Gln Asn Asn Asp Ile Ser Glu Leu Arg Lys Asp Asp Phe Lys Gly
233 100 105 110
235 Leu Gln His Leu Tyr Ala Leu Val Leu Val Asn Asn Lys Ile Ser Lys
236 115 120 125
238 Ile His Glu Lys Ala Phe Ser Pro Leu Arg Lys Leu Gln Lys Leu Tyr
239 130 135 140
241 Ile Ser Lys Asn His Leu Val Glu Ile Pro Pro Asn Leu Pro Ser Ser
242 145 150 155 160

```

RAW SEQUENCE LISTING

DATE: 04/02/2002

PATENT APPLICATION: US/09/715,836A

TIME: 16:13:59

Input Set : A:\BURF-P01-006 Sequence Listing.txt

Output Set: N:\CRF3\04022002\I715836A.raw

```

244 Leu Val Glu Leu Arg Ile His Asp Asn Arg Ile Arg Lys Val Pro Lys
245                               165                               170                               175
247 Gly Val Phe Ser Gly Leu Arg Asn Met Asn Cys Ile Glu Met Gly Gly
248                               180                               185                               190
250 Asn Pro Leu Glu Asn Ser Gly Phe Glu Pro Gly Ala Phe Asp Gly Leu
251                               195                               200                               205
253 Lys Leu Asn Tyr Leu Arg Ile Ser Glu Ala Lys Leu Thr Gly Ile Pro
254                               210                               215                               220
256 Lys Asp Leu Pro Glu Thr Leu Asn Glu Leu His Leu Asp His Asn Lys
257 225                               230                               235                               240
259 Ile Gln Ala Ile Glu Leu Glu Asp Leu Leu Arg Tyr Ser Lys Leu Tyr
260                               245                               250                               255
262 Arg Leu Gly Leu Gly His Asn Gln Ile Arg Met Ile Glu Asn Gly Ser
263                               260                               265                               270
265 Leu Ser Phe Leu Pro Thr Leu Arg Glu Leu His Leu Asp Asn Asn Lys
266                               275                               280                               285
268 Leu Ala Arg Val Pro Ser Gly Leu Pro Asp Leu Lys Leu Leu Gln Val
269                               290                               295                               300
271 Val Tyr Leu His Ser Asn Asn Ile Thr Lys Val Gly Val Asn Asp Phe
272 305                               310                               315                               320
274 Cys Pro Met Gly Phe Gly Val Lys Arg Ala Tyr Tyr Asn Gly Ile Ser
275                               325                               330                               335
277 Leu Phe Asn Asn Pro Val Pro Tyr Trp Glu Val Gln Pro Ala Thr Phe
278                               340                               345                               350
280 Arg Cys Val Thr Asp Arg Leu Ala Ile Gln Phe Gly Asn Tyr Lys Lys
281                               355                               360                               365
284 <210> SEQ ID NO: 10
285 <211> LENGTH: 12
286 <212> TYPE: PRT
287 <213> ORGANISM: Plasmid pQE-biglycan
289 <400> SEQUENCE: 10
291 Met Arg Gly Ser His His His His His His Gly Ser
292 1                               5                               10

```

VERIFICATION SUMMARY

DATE: 04/02/2002

PATENT APPLICATION: US/09/715,836A

TIME: 16:14:00

Input Set : A:\BURF-P01-006 Sequence Listing.txt

Output Set: N:\CRF3\04022002\I715836A.raw

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date